

SHOWER ARM DETAIL

SCALE: NONE

ESCUTCHEON — PLATE

COPPER PLATED PIPE CLAMPS

ANCHORED TO 2x4 BLOCKING

COLD WATER ENTRANCE DETAIL SCALE: NONE

HUB DRAIN

TO PLUMBING → ↑

RACKED

ON WALL

FOR PLBG.

SYSTEM

SYSTEM

FROM 3"

METER

VALVE IN

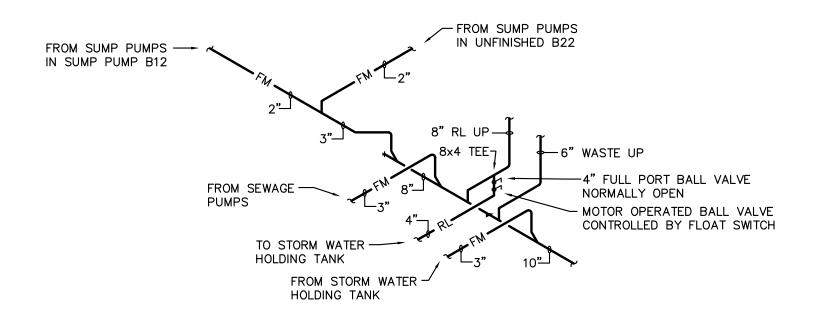
GATE

TRAP PRIMER DETAIL

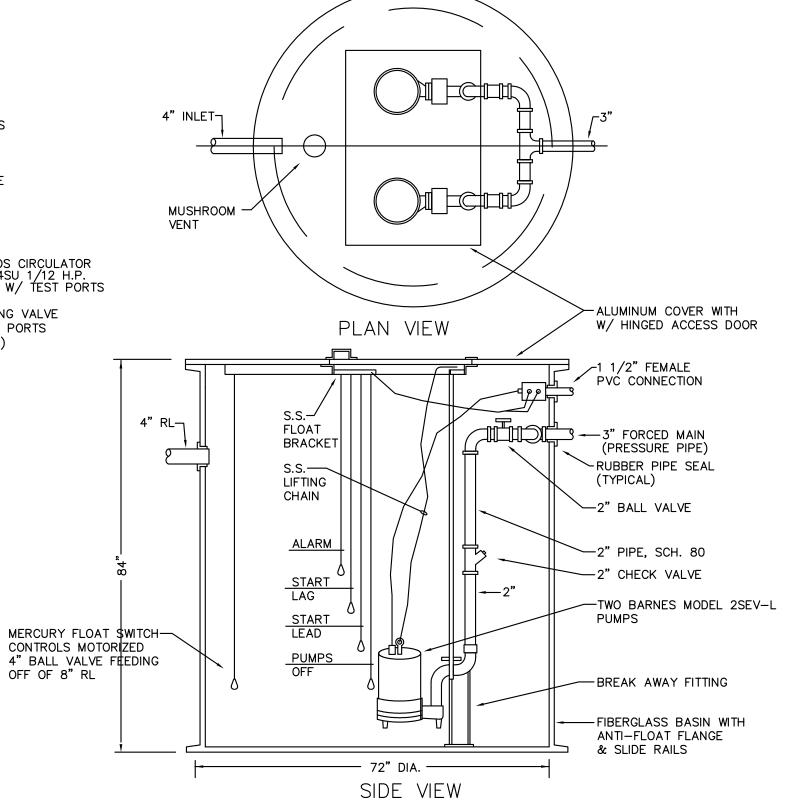
SCALE: NONE

TO KITCHEN TO PLUMBING SYSTEM 2 1/2" RADI EMC1——— MIX. VALVE SET AT 120° CHECK VALVE (TYP.) - FROM GUEST ROOMS WATTS # N36 VAC. FROM KITCHEN -→ THERMOMETER RELIEF VALVE --- IMMERSION TYPE AQUASTAT (TYPICAL) GRUNDFOS CIRCULATOR — UP15-42U 1/25 H.P. FURNISH W/ TEST PORTS - BALL VALVE RUN PIPING ALONG WALL BEHIND WATER HEATERS. PIPING SHALL BE ARRANGED 1/2" SO THAT EACH PIECE OF EQUIPMENT MAY -GRUNDFOS CIRCULATOR UP26-64SU 1/12 H.P. FURNISH W/ TEST PORTS BE EASILY REPLACED WITHOUT SHUTDOWN OF THE ENTIRE SYSTEM. PREPARE AND SUBMIT FOR APPROVAL, 1/2"— 1/2" SCALE SHOP DRAWINGS OF ALL BALANCING VALVE PIPING, EQUIPMENT, ETC. IN MECH. ROOM L RELIEF VALVE PIPED W/ TEST PORTS PRIOR TO ROUGHING IN AND/OR ORDERING FULL SIZE TO DRAIN (TYPICAL) ¹ 1/2" ANY EQUIPMENT. ALL WIRING BY PAN (TYPICAL) ELECTRICAL CONTRACTOR. MAINTAIN ALL 1 1/2" CODE REQUIRED CLEARANCES. PROVIDE FACTORY AUTHORIZED SUPERVISION <u></u> —2 1/2" OF INSTALLATION & STARTUP OF EQUIPMENT. NO EXCEPTIONS. (TYPICAL FOR ALL WATER HEATERS) STORE WATER SEE HVAC DWGS. FOR VENT AT 145° & GAS PIPING WATER HEATER EQUAL TO -PVI 1400 L 250 A-PV 250 GALLON, 1,000,000 (TYP.) BTUH INPUT (TYPICAL) ELBI DTS 80 ASME-EXPANSION TANK

4 | PIPING SCHEMATIC AT WATER HEATERS



CONNECTION TO EXISTING COMBINED STORM/SANITARY DETAIL SCALE: NONE



DUPLEX STORM WATER PUMP STATION

SCOPE: FURNISH AND INSTALL A FACTORY ASSEMBLED SUBMERSIBLE SEWAGE DUPLEX STAINLESS RAIL SYSTEM. THE PACKAGE SHALL CONSIST OF A FIBERGLASS BASIN, SLIDE RAIL ASSEMBLIES, DISCHARGE PIPING AND FITTINGS, CHECK VALVES, CUTOFF VALVES, LEVEL CONTROLS, NON-CLOG SUBMERSIBLE PUMPS, CONTROL PANEL AND ALL OTHER NECESSARY ACCESSORIES EQUAL TO THE FOLLOWING:

PUMPS: SUBMERSIBLE NON-CLOG PUMPS SHALL BE EQUAL TO "BARNES" SERIES "SEV" MODEL NO 2SEV102ZL, 2" NPT VERTICAL DISCHARGE, 1 H.P., 3450 RPM, MECHANICAL SHAFT SEALS IN SEPARATE OIL FILLED RESERVOIR, AND 20 FT POWER CABLES. EACH PUMP CAPABLE OF DELIVERING 75 GPM AT 28 FT TDH AND CAPABLE OF 2" SPHERICAL SOLIDS HANDLING.

PACKAGE DESIGN: THE BASIN DIAMETER SHALL BE 72 INCHES WITH DEPTH OF 7 FEET. CONSTRUCTION SHALL BE MOLDED FIBERGLASS REINFORCED POLYESTER RESIN WITH INTERIOR SURFACE TO BE GEL-COATED FROM 10 TO 20 MIL THICK. AN ANTI-FLOATATION COLLAR SHALL BE PROVIDED AS PART OF THE BASIN ASSEMBLY. PROVIDE 4" INLET FITTING FOR FIELD MOUNTING, 2" OUTLET AND OPTIONAL MUSHROOM VENT IN COVER. BASIN SHALL BE EQUAL TO STEELE PLASTICS, INC.

THE BASIN COVER SHALL BE OF ALUMINUM CONSTRUCTION WITH A MINIMUM THICKNESS OF 1/4", DOUBLE HINGED ACCESS DOORS WITH LOCKING DEVICE. ALL HARDWARE SHALL

THE SLIDE RAIL ASSEMBLY SHALL CONSIST OF A CAST IRON BASE ELBOW WHICH IS BOLTED TO THE FLOOR OF THE WET WELL. THE STATIONARY AND MOVABLE PORTIONS ARE HYDRAULICALLY SEALED WITH AN O-RING. STAINLESS STEEL GUIDE RAILS ARE ATTACHED TO THE COVER FRAME. A STAINLESS CABLE SHALL BE PROVIDED FOR PUMP INSTALLATION AND REMOVAL.

A 2" TRU-UNION FULL PORT BALL VALVE SHALL BE INSTALLED IN THE DISCHARGE OF EACH PUMP TO PROVIDE SHUT OFF CAPABILITIES DURING PUMP REMOVAL. THE EXTENSION HANDLE SHALL EXTEND UP TO WITHIN 6" OF TOP OF BASIN.

A QUANTITY OF FIVE LIQUID LEVEL CONTROLS WITH SJOW-A CABLE SHALL BE PROVIDED TO CONTROL THE OPERATION OF THE PUMPS AND HIGH WATER ALARM. THE LEVEL SENSORS SHALL BE MERCURY TYPE PILOT DUTY DEVISED MOUNTED IN A CORROSION RESISTANT POLYPROPYLENE HOUSING (WEIGHTED TYPE). THE FLOATS WILL BE ATTACHED TO A STAINLESS STEEL FLOAT BRACKET.

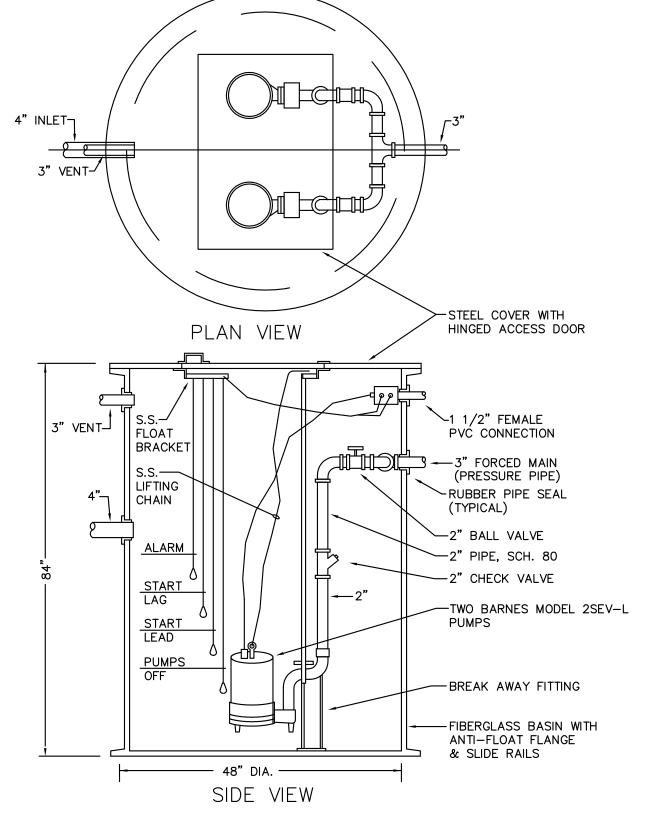
A DUPLEX CONTROL PANEL SHALL BE FURNISHED IN A NEMA-3R ENCLOSURE INCLUDING MASTER DISCONNECT, MAGNETIC CONTACTORS, O.L. PROTECTION, HOA SWITCHES, RUN LIGHTS, ALTERNATOR AND HIGH WATER ALARM AUDIBLE/LIGHT AND SILENCING SWITCH. AUDIBLE/LIGHT AND SILENCING SWITCH.

PROVIDE POWER SUPPLY CONTACTOR RELAY TO ACTIVATE AND CONTROL THE 4" FULL PORT MOTORIZED BALL VALVE.

SEE ELECTRICAL PLANS FOR VOLTAGE.

DUPLEX STORM WATER PUMP DETAIL AND SPECIFICATION

SCALE: NONE



DUPLEX SEWAGE PUMP STATION

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PUMPS: SUBMERSIBLE NON-CLOG PUMPS SHALL BE EQUAL TO "BARNES" SERIES "SEV" MODEL NO 2SEV7246, 2" NPT VERTICAL DISCHARGE, 3/4 H.P., 1750 RPM, MECHANICAL SHAFT SEALS IN SEPARATE OIL FILLED RESERVOIR, MOISTURE SENSORS, AND 20 FT POWER CABLES. EACH PUMP CAPABLE OF DELIVERING 85 GPM AT 22 FT TDH AND CAPABLE OF 2" SPHERICAL SOLIDS HANDLING.

PACKAGE DESIGN: THE BASIN DIAMETER SHALL BE 48 INCHES WITH DEPTH OF 7 FEET. CONSTRUCTION SHALL BE MOLDED FIBERGLASS REINFORCED POLYESTER RESIN WITH INTERIOR SURFACE TO BE GEL-COATED FROM 10 TO 20 MIL THICK. AN ANTI-FLOATATION COLLAR SHALL BE PROVIDED AS PART OF THE BASIN ASSEMBLY. PROVIDE 4" INLET FITTING FOR FIELD MOUNTING, 2" OUTLET. BASIN SHALL BE EQUAL TO STEELE PLASTICS, INC.

THE BASIN COVER SHALL BE OF STEEL CONSTRUCTION WITH A MINIMUM THICKNESS OF 1/4", DOUBLE HINGED ACCESS DOORS WITH LOCKING DEVICE. ALL HARDWARE SHALL BE STAINLESS STEEL.

THE SLIDE RAIL ASSEMBLY SHALL CONSIST OF A CAST IRON BASE ELBOW WHICH IS BOLTED TO THE FLOOR OF THE WET WELL. THE STATIONARY AND MOVABLE PORTIONS ARE HYDRAULICALLY SEALED WITH AN O-RING. STAINLESS STEEL GUIDE RAILS ARE ATTACHED TO THE COVER FRAME. A STAINLESS CABLE SHALL BE PROVIDED FOR PUMP INSTALLATION AND REMOVAL.

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